APPENDIX C1

TRADE NAME MATERIAL COMPONENTS LISTINGS AND TOTALS

APPENDIX TO CHAPTER 16

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TRADE NAME MATERIAL COMPONENTS LISTINGS AND TOTALS

Information on chemicals used, stored and disposed of at the SRS was compiled for Chapter 16. Trade name materials (commercial products) accounted for a significant amount of the inventory for some materials. The information in the Chemical Information and Inventory System (CIIS) database suggested that 5.2% of the trichloroethane, all of the dimethyl phalate, 4.2% of the nickel, 6.8% of the ethylene oxide, 74.6% of the trichloroethylene, and 19% of the phosphoric acid onsite was contained in trade name compounds.

Numerous entries for ethyl alcohol (ethanol, solvent alcohol, dehydrating alcohol, etc.) totaling 6930 kg were found in the CIIS database. Ingestion of alcohol is believed to increase the risk for various human cancers and alcohol is considered to be a reproductive and developmental hazard. Alcohol can be inhaled as a result of its use as a cleaner, solvent, and disinfectant. Methanol is more toxic than ethanol and was not combined under the entry alcohol.

References to chrysotile, crocidolite, anthophyllite, cristobalite, filterbestos, asbestos siding, and asbestos tile were combined under asbestos.

On the basis of the toxicity values for the most toxic components and inventory amounts listed, ABA Plus bacteriacide and biocide, Garlon 3A Herbicide, Biosperse 261T Microbiocide, and Kathon FB 1.5 biocide and algaecide were deleted from the list of chemicals to be ranked. These compounds are severe irritants but ranking ratios, determined using acceptable exposure limits proposed in the material safety data sheets or threshold limit values for the most toxic components, would be well below 0.001.

Table C1-1 summarizes the trade materials accounted for in the summed inventory totals used for chemicals. The chemical component and the percentage is given if known.

Table C1-1. Summary of Trade Materials

Material	Component and estimated percentage if known	CIIS inventory amount (kg)
ALCOHOL - ETHANOL		
Copalite		408.6
Reducer No 54	23% ethanol	1.8
Tuff-bond	?% ethanol	0.5
Gram safranin	20% ethanol	4.6
Safranin solution	9% ethanol	0.9
Nycote 7-11	50% ethanol	0.4
Dodecanol, dodecyl alcohol		5.5
ISOPROPANOL		
Isopropanol		7,480.1
IPA anhydrous		90.7

Table C1-1. (Continued)

Material	Component and estimated percentage if known	CIIS inventory amount (kg)
ASBESTOS		
Kaocrete HS	15% cristobalite	498.9
Dicalite 21	55–15% cristobalite	43.5
Hyflo Super Gel	<60% cristobalite	9.9
Celite	20% cristobalite	1,533.1
CL7824	?% chrysotile	0.9
CHLOROFLUORCARBONS (CFC, FREONS)		
Forane 11	Trichlorofluoromethane	340.2
E Series UltraJet	Chlorodifluormethane	326.6
R 12	Dichlorofluromethane	0
R 22	Chlorodifluromethane	0
CDC 3-36 Aerosol		425.9
Forane 113		453.6
CHROMIUM		
Colloidion	98% chromium trioxide	1.4
Chronamig 333M	3–60%	45.3
Knight/Laggi System	Zinc chromate	238.1
Smootharc 307R 309 MC-150	1–10%	77.1
Potassium zinc chromate		14.9
Sodium chromate		17.3
Ammonium chromate		0
Ammonium dichromate		1.36
Potassium chromate		17.7
Sodium dichromate		442.7
DIOXANE		
Remac 71	?%	97.9
ETHYLENE OXIDE		
Rhodameen VP-532	<01 %	29.9
Iguafen VP-532 SPB	<0.1%	Listed under rhodameen
Katapol VP 532 SPB	<0.1%	Listed under rhodameen

Table C1-1. (Continued)

Material	Component and estimated percentage if known	CIIS inventory amount (kg)
METHYLENE CHLORIDE		
SCI-125	Up to 100%	4.08
Virginia No 10 degreasing solvent	10–15%	14.51
TFE Dry Spray	34%	0.4
Strip Solve	98%	0.9
PHOSPHORIC ACID		
Naval jelly rust dissolver	25–30%	5,062.1
TOLUENE/XYLENE		
Byco 300 Hb catalyst		299.3
Bycothane 900		1,428.8
CP 30 Chilperm	Xylene 50%	0
HYDROCARBONS/PETROLEUM DISTILLATES		
Bioact AE-P	Terpene hydrocarbons	381.0
Novoid A	Asphalt	34.0
MP-429	Hydrocarbons > 6%	0
Ardox 906/p303A	Petroleum, naptha	117.9
Blue ribbon prime neatsfoot	Petroleum distillate	54.9
Diesel fuel antigel		23.6
Diesel tone fuel conditioner		16.3
NICKEL		
Active raney catalyst	88–92%	1.8
Savin developer	Nickel oxide <99%	278.0
MetCo		68.0
Green Nickolous	98% nickel oxide	4.5
FEL-PRO N-5000	Nickel flake 16%	0.7
Raney 200, active raney catalyst	88–92% nickel	0.4
Raney 2924, active raney catalyst	88–92% nickel	0.4
Chronamig 333M	1–15%	45.3
Smootharc 307R 309 MC 150	1–3%	77.1
INCO Srounds Electrolytic	99% nickel metal	3,749.0
Nickelous oxide green		5.0

Table C1-1. (Continued)

Material	Component and estimated percentage if known	CIIS inventory amount (kg)
STYRENE		
Muffle lag	14%	163.2
Ceilline Saurant Part A	5–15%	35.3
T-431 solvent		64.4
P380 primer liquid	54%	4,440.0
Hetron 435P	33% styrene	347.0
Muffle Lag Part 1	14%	163.2
Cielcrete 695	36%	34.4
TRIBUTYL PHOSPHATE		
Opti-fluor		2,363.6
TETRACHLOROETHYLENE		
Virginia No 10 degreasing solvent	10%	14.5
Tremply solvent		16.1
TRICHLOROETHANE		
BCR 10288-22	92–94%	6.8
SP-400 solvent	30%	904.9
Tremply solvent		16.1
TRICHLOROETHYLENE		
Aerothane ST solvent typethinner	<10%	297.6
Deglazing solvent	96%	180.9
Vucanizing fluid 201-207	50%	8.6
ZINC		
Metalhydride primer		0
HG absorber	94–96%	49.8
Texamatic 9226 tranmission fluid	Up to 11% zinc compounds	571.5
Knight/Laggi System	Zinc chromate	238.1
Potassium zinc chromate		14.9
Metalhide 1001 green zinc		34.0
DIMETHYLPHTHLATE		
NoRox MEKP-9	52%	408.2

Table C1-1. (Continued)

Material	Component and estimated percentage if known	CIIS inventory amount (kg)
PESTICIDES		
ABA Plus	Biocide bacteriacide	512.4
Pronone 10G granular herbicide	61% ammonium hydroxide	136.1
Garlon 3A herbicide	Petrolleum distillates	1,088.1
Amdro fire ant poison	1% hydramethylnon	56.7
Accord	41% glycophosphate isopropylamine	90.72
Biospherse 261T microbiocide	Bromochlorodimethylimi dazoidinedione. Algacide/biocide, no ingredients listed	333.7
Kathon FB 1.5 biocide/algacide	Dipropylene glycol	1,587.6
Garlon 4 herbicide		90.7

Although silica was not considered a hazardous environmental pollutant and was not included in the ranking, trade name materials containing silica are listed below in Table C1-2.

Table C1-2. Summary of Trade Name Materials Containing Silica

Material	Component and estimated percentage if known
QUARTZ/SILICA	
IMSILA 108	Silicon dioxide
HIT-C100 dowelling	Quartz
Frit 202	Glass frit
Ionsiv zeolite cation exchange	Silicon oxide
L&M Cure	Sodium silicate
CP 10 Vi Cryl	Quartz 18–25%
Kaocrete HS	Quartz 15%
CP11-Vi Cryl	18–23% quartz
Dicalite 215	2–9%
Bento Seal	1% quartz
Type S-15 aggregates	90% quartz
Waterplug	25–30%

Table C1-2. (Continued)

Material	Component and estimated percentage if known
Hyflo Super Gel	
Celite	3% quartz
Carboline Surfacer	70% quartz
Bisco SE Form Part A	17% quartz
Bisco Se Form B	16% quartz
S1 Powder	90% quartz
CP-10 Vi-Cryl	18–23%
Sikadur 31 hi od gel	17% silica flour
Imasil A 108	Silicon dioxide
Carboline	65% quartz
Nibo Chemtro Heavy Duty Gray	Cement
Smooth on MT 13	Quartz
Amorphous silica	
Crystal lime silica	
Portland cement	
Talc	
Tricalcium silicate	
Polydimethylsiloxane	